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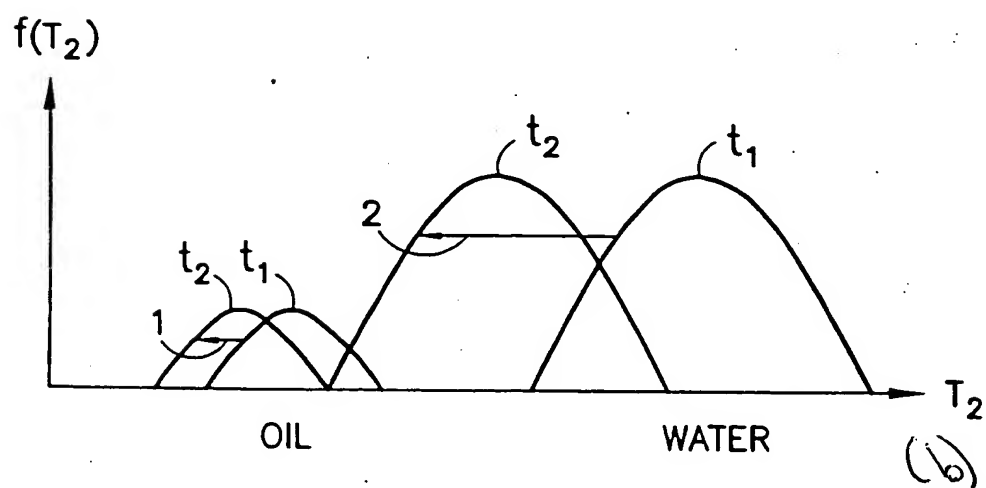
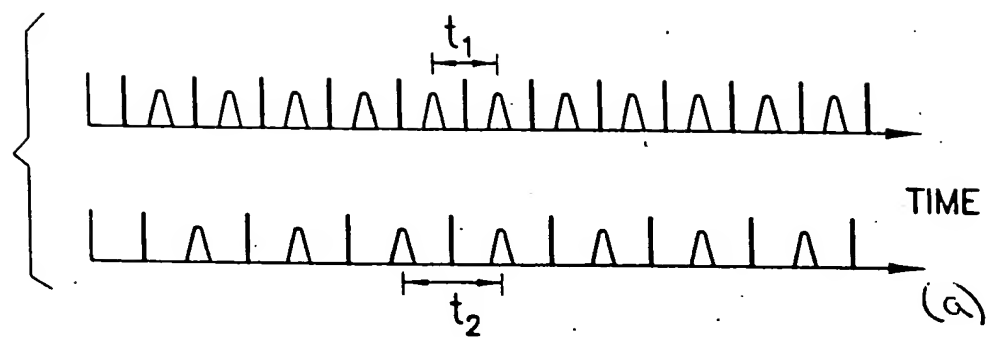


FIG. 1  
PRIOR ART

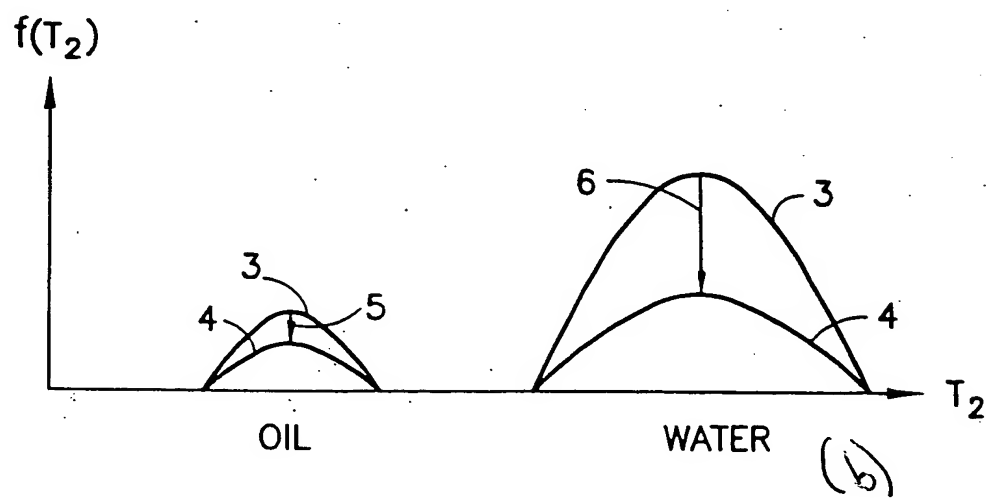
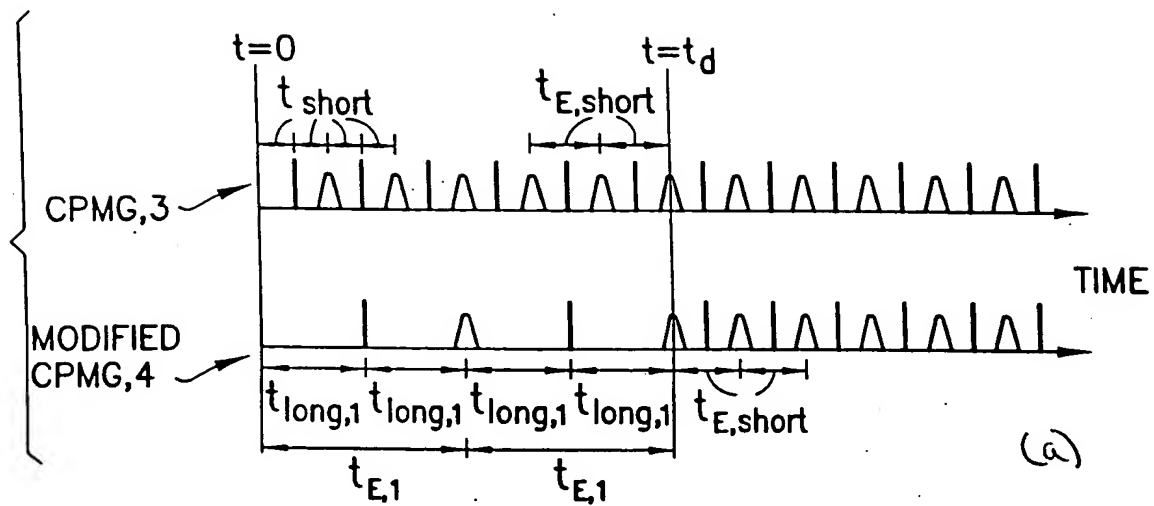
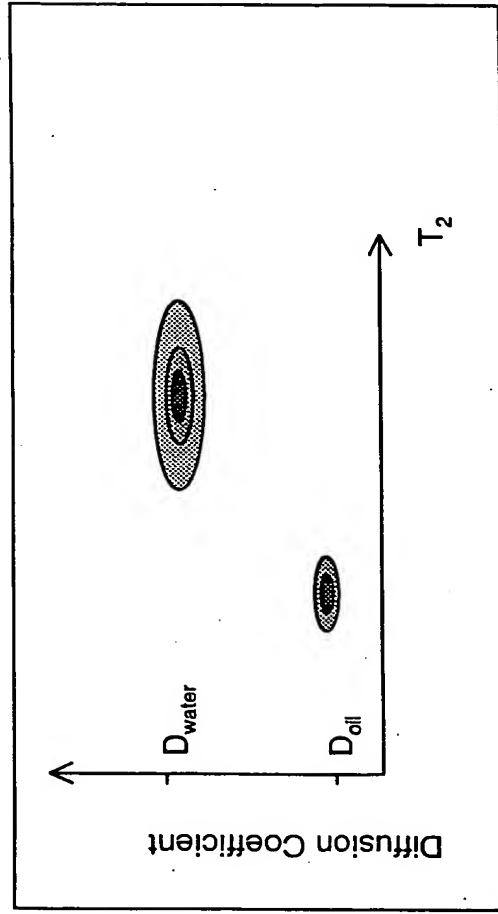


FIG.2

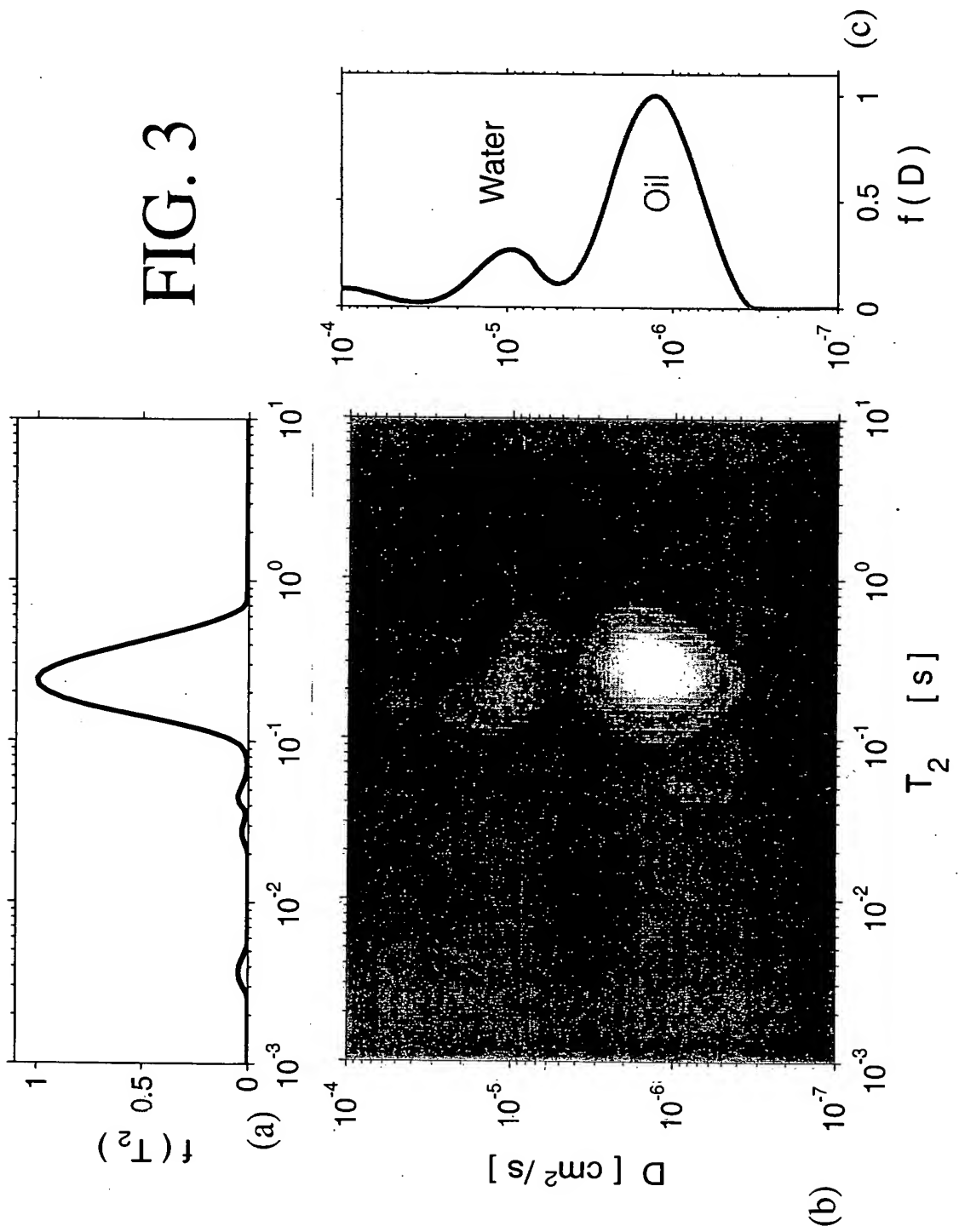
Diffusion -  $T_2$  Map



(c)

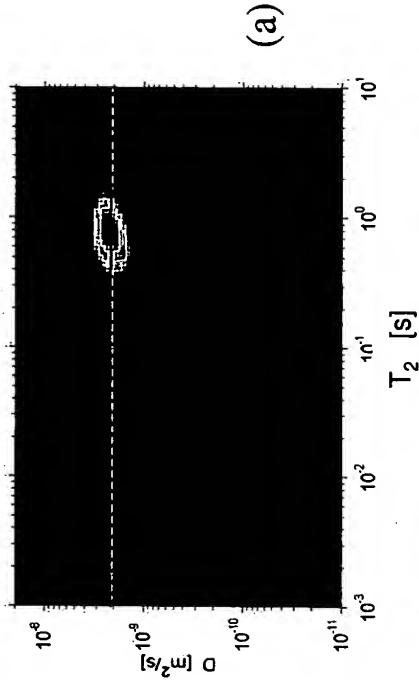
FIG. 2

Lab Data: Berea, partially oil saturated

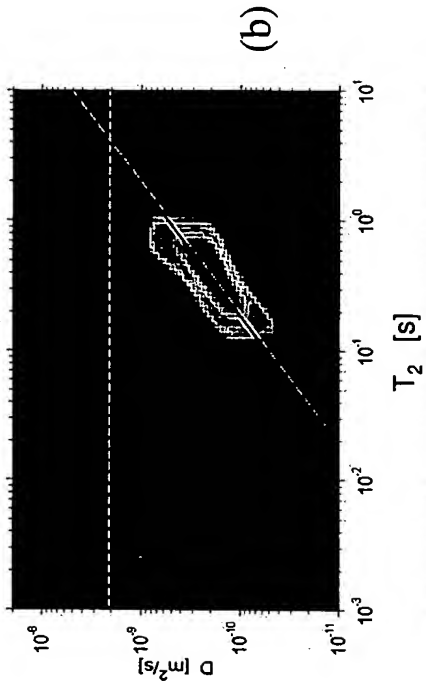


Bentheimer Sandstone

water saturated



drainage



imbibition

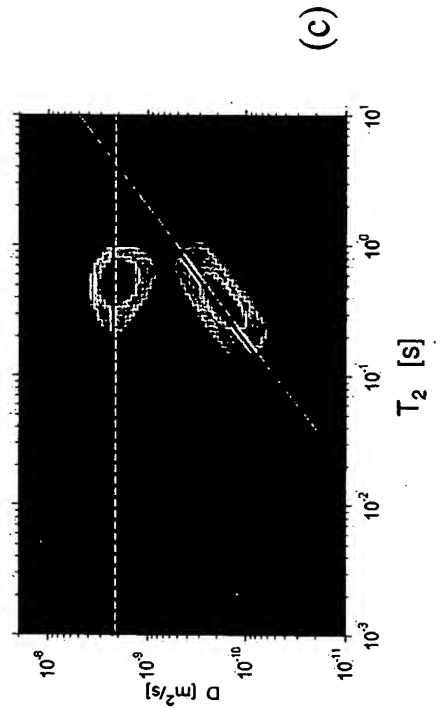


FIG. 4

# Fully Water Saturated Samples

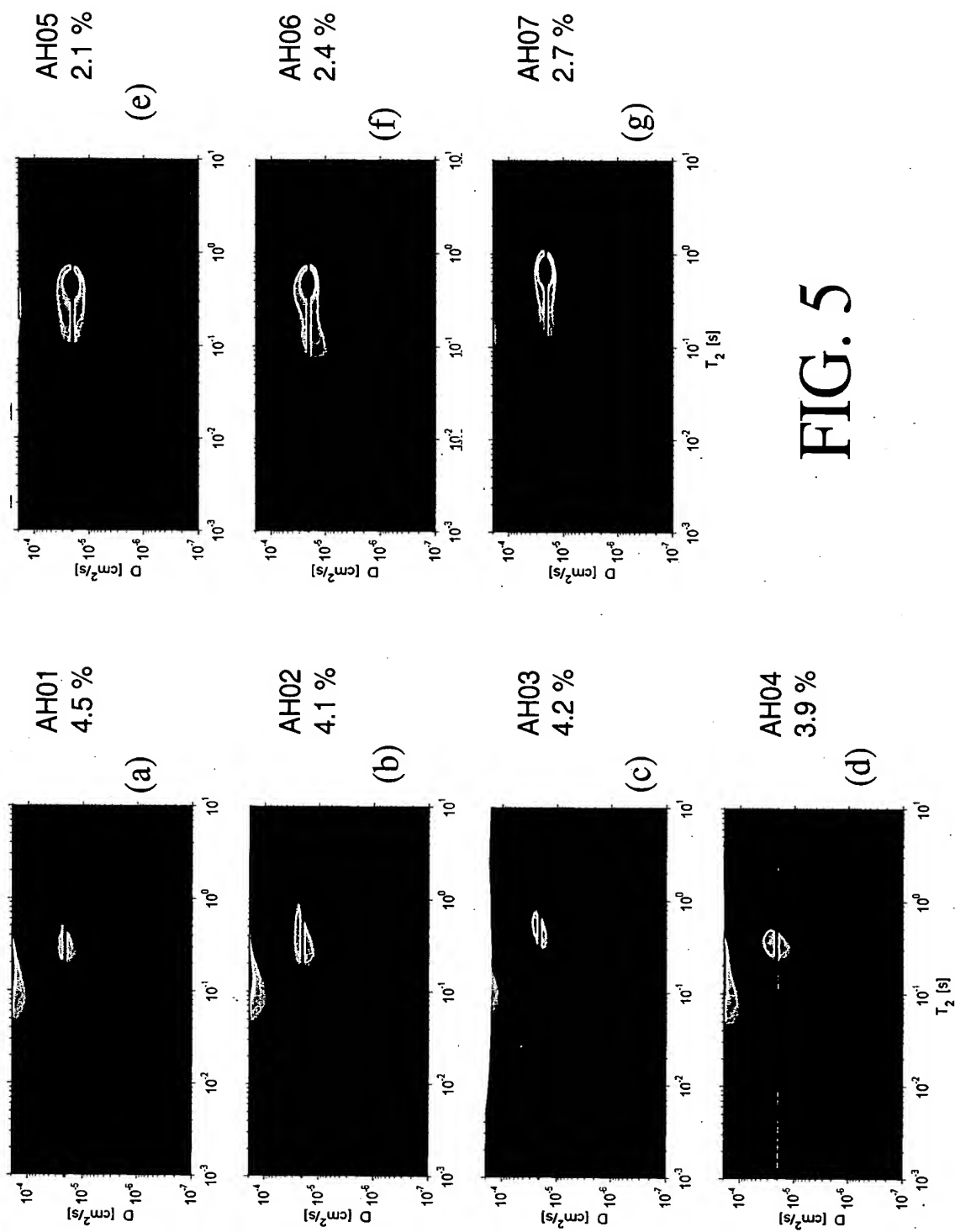
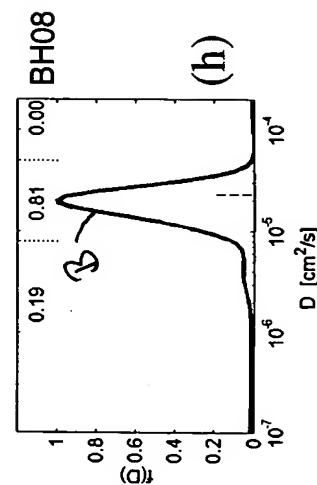
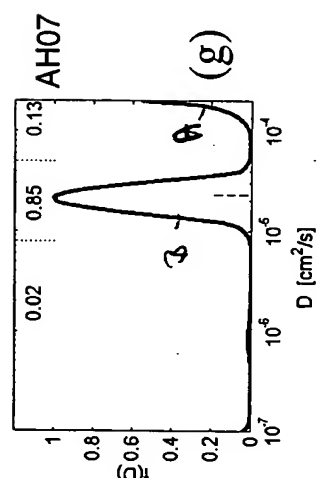
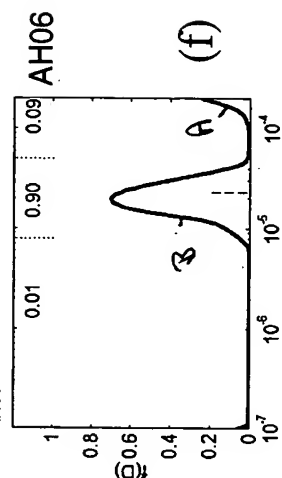
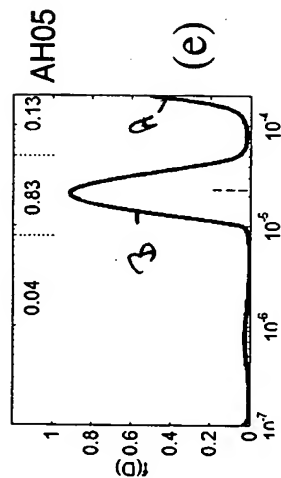
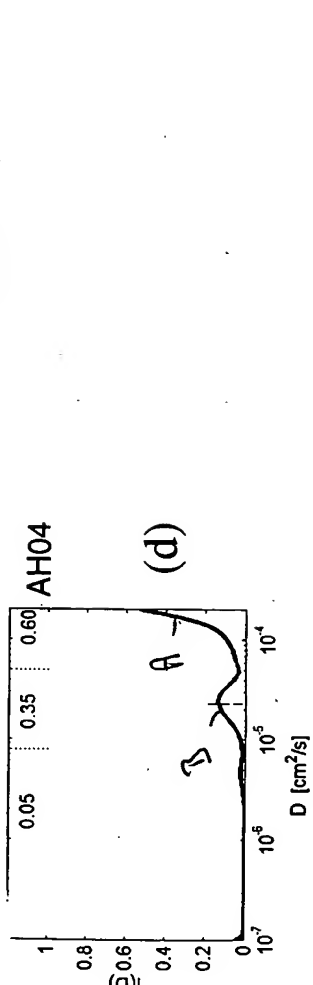
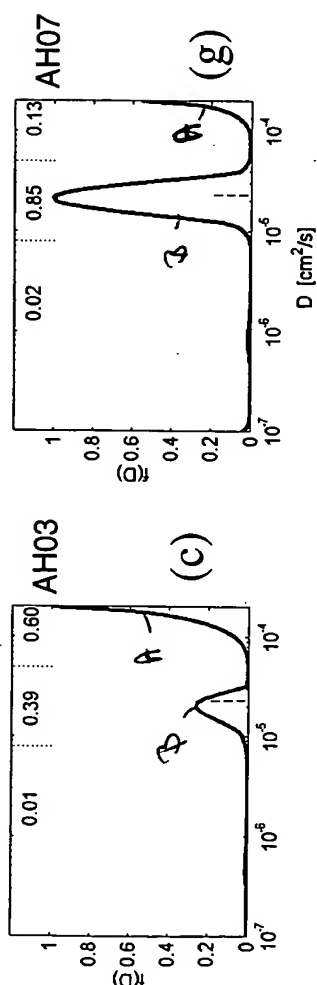
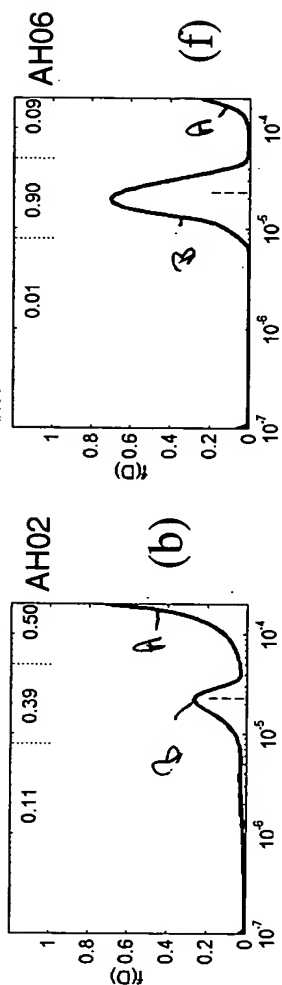
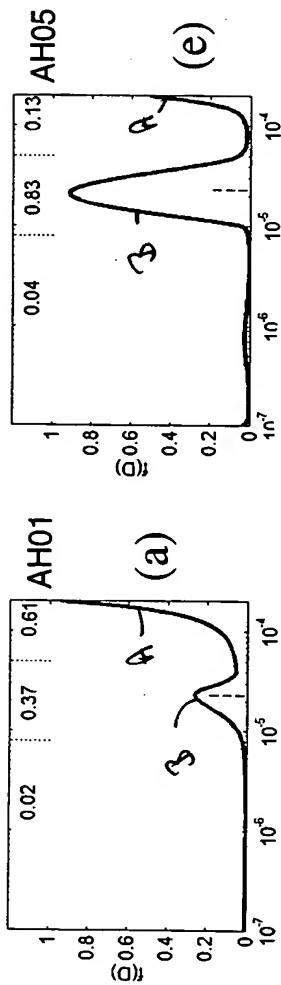


FIG. 5

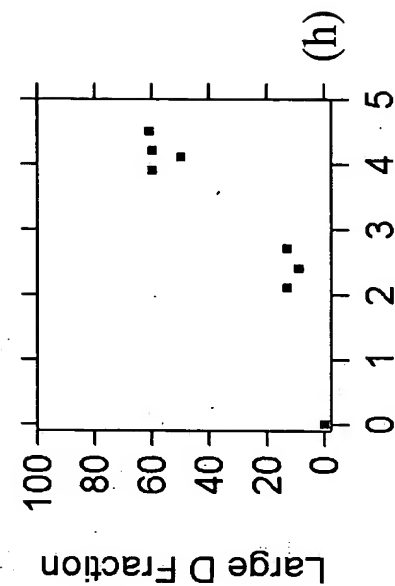
Distribution of apparent  
diffusion coefficient,  $f(D)$



Reference core without chlorite

FIG. 6

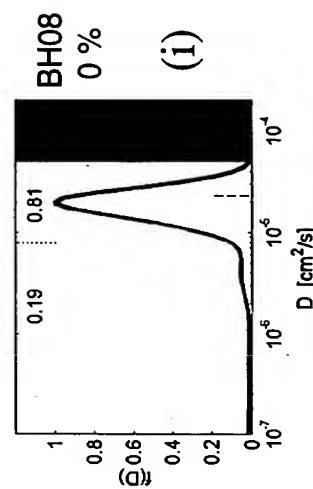
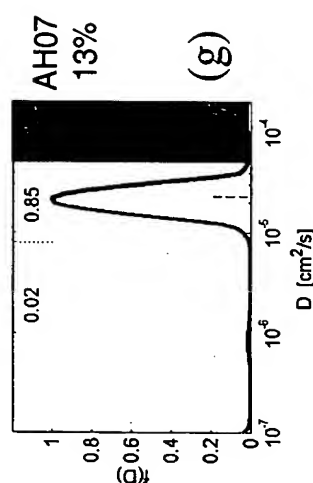
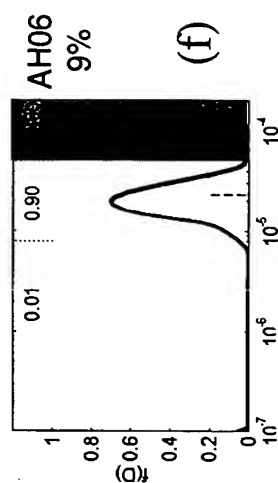
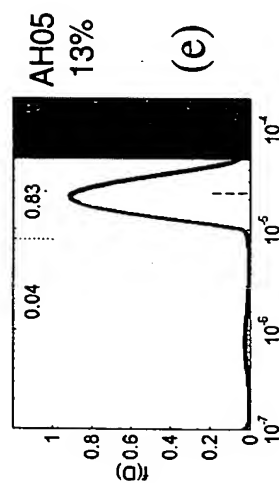
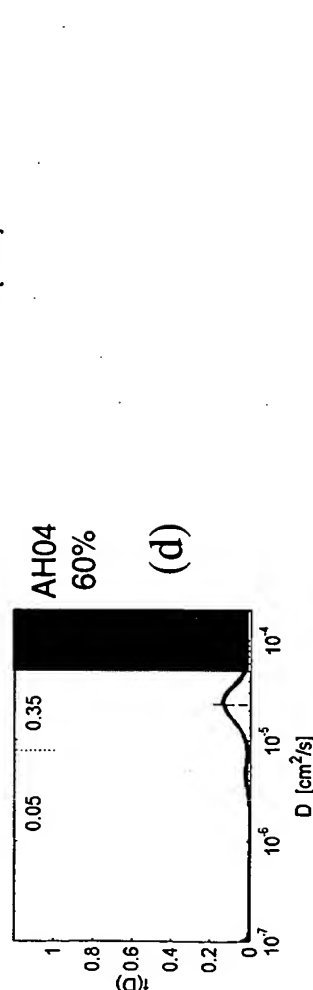
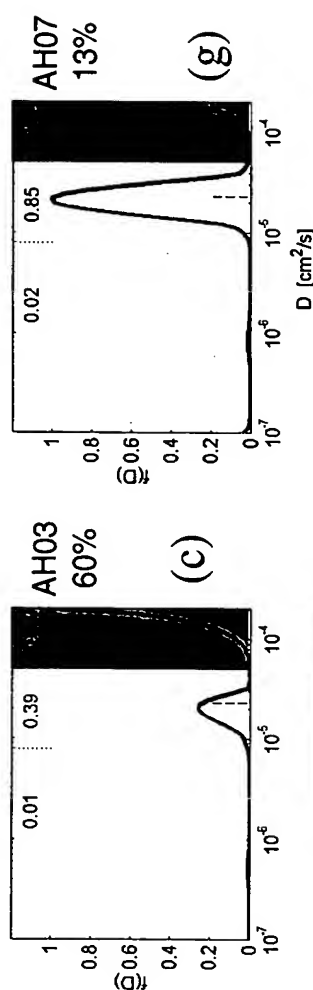
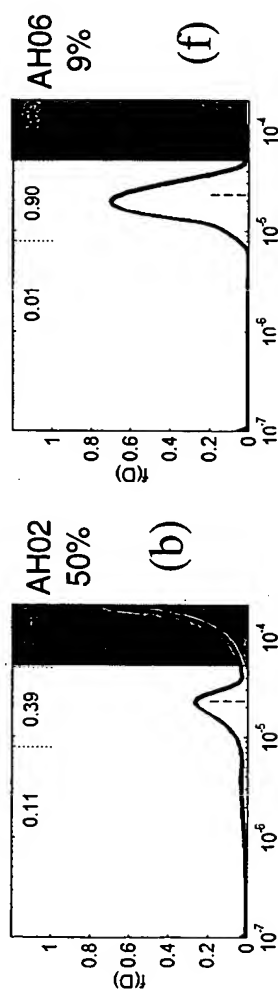
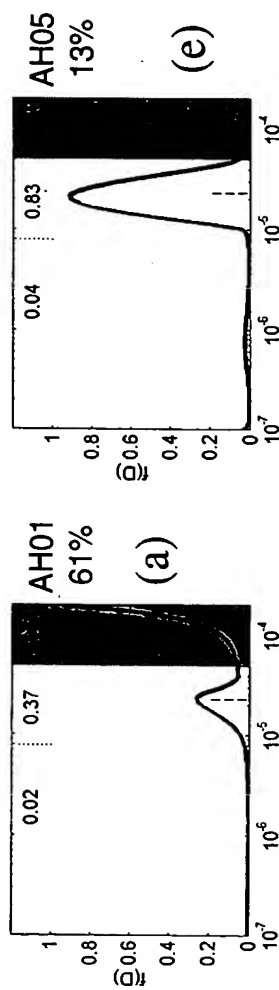




Weight Percentage of Chlorite

FIG. 7

Reference core without chlorite



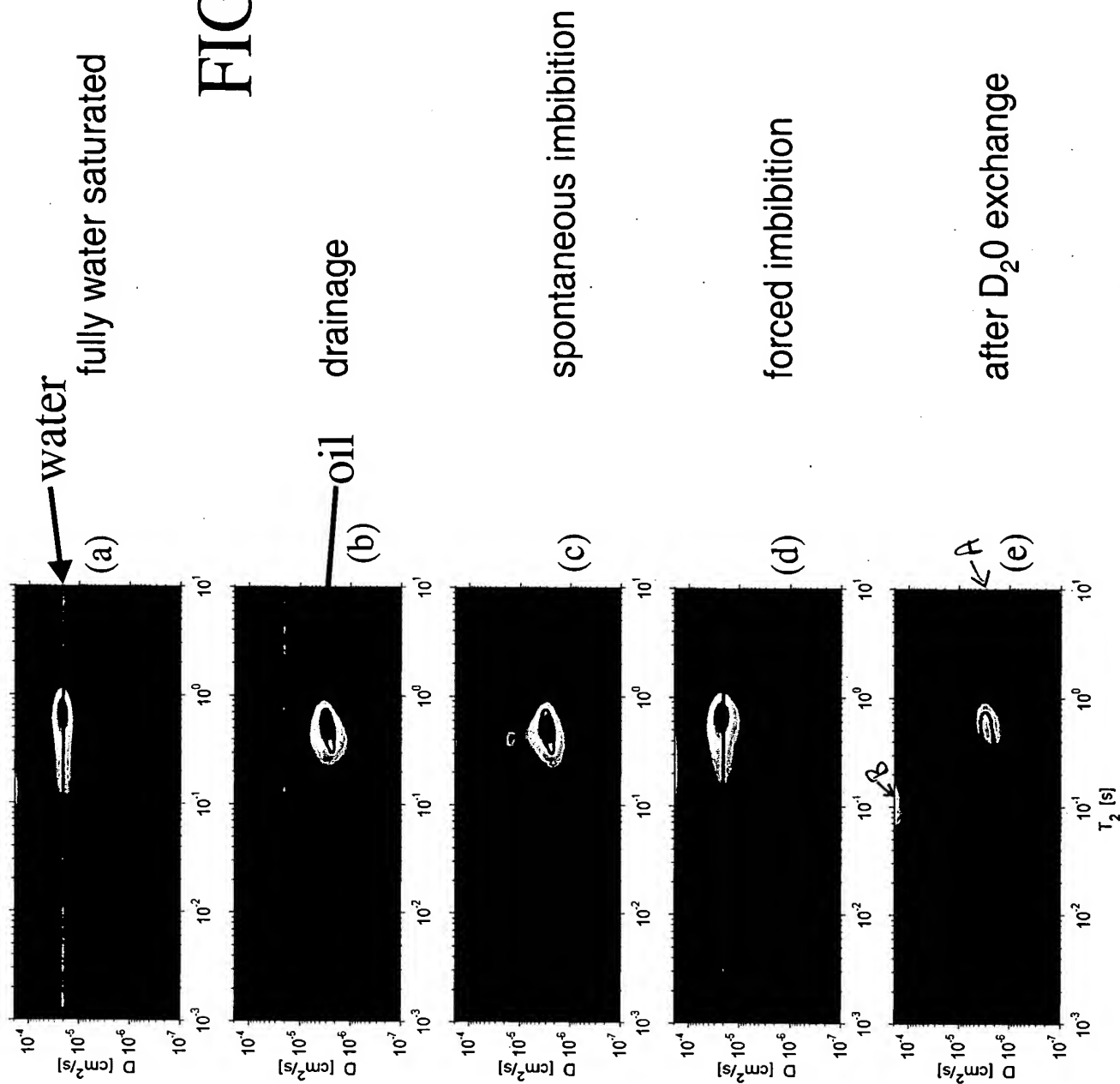
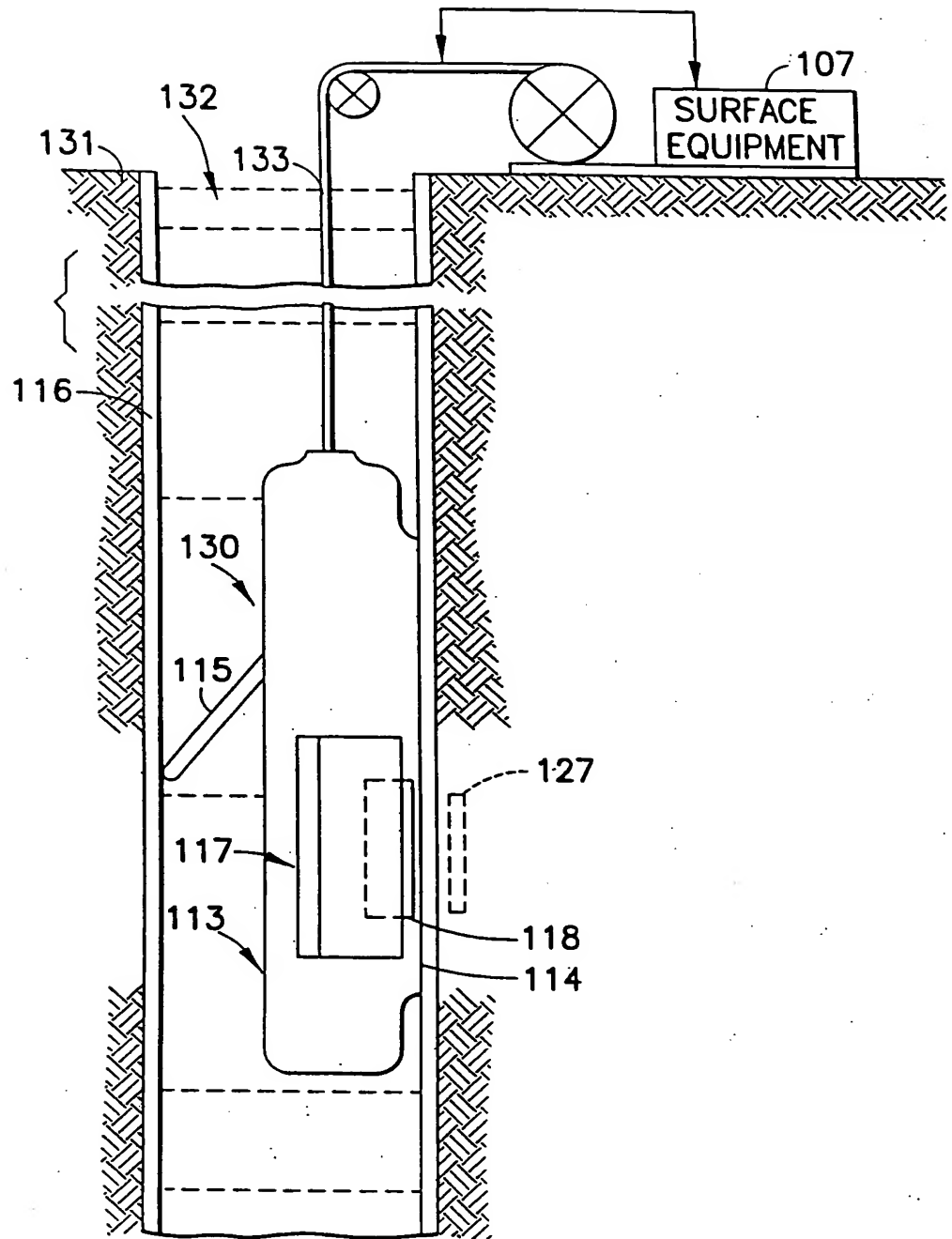


FIG. 8



**FIG. 9**  
PRIOR ART